

**IN THE SPECIFICATION**

Please amend the Specification to read as follows:

The Paragraph starting on Page 10, Line 1 should read:

Figure 9 shows another cross-sectional view of an X-ray tube 10 according to the invention. The acceleration modules 41,...,45 comprise additionally a possible embodiment for shields 423...443 for suppression of the stray electron flow on the ceramic insulator. This embodiment variant has the advantage, among others, that the shields constitute supplementary protection for the ceramic insulator. The service life of the X-ray tubes and/or the difference in potential between the individual acceleration electrodes can thereby be further increased. The possible embodiment of Figure 9 shows spherically or conically designed ends of the electrodes 423/433/443 and/or of the shields 412,...,415 412, 422, 432, 442 and 452 for reducing or minimizing the field peak at the respective electrode 423/433/443 and/or ~~shield 412,...,415~~ ~~shields 412, 422, 432, 442 and 452~~. The electrodes 423/433/443 are connectible by voltage connections, e.g. to a high voltage cascade.

The Paragraph starting on Page 14, Line 19 should read:

It is important to point out that with the X-ray tubes 10 according to the invention a modularity in principle exists, i.e. the increase in the radiance energy of an X-ray tube 10 can be achieved by adding one or more acceleration segments 41,...,45 or acceleration modules 41,...,45. At least one of the acceleration modules 41,...,45 can thereby be constructed such that it bears a reclosable vacuum valve. The acceleration modules 41,...,45 can further comprise vacuum seals on one side or on both sides. This has the advantage that individual defective acceleration modules 41,...,45 can be simply replaced and/or recycled by a defective tube 10 being devacuumized using the reclosable vacuum valve 531, the defective acceleration module 41,...,45 being replaced by a new and/or functioning one, and the tube 10 being vacuumized again using a corresponding vacuum pump via the reclosable vacuum valve